



ATTACHMENT B

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Claims 1-2. (Canceled)

3. (Currently Amended) An instrument panel according to ~~claim 1~~ claim 101 wherein said computer controls said display as a result of data inputted to said computer from an external source.

4. (Currently Amended) An instrument panel according to ~~claim 1~~ claim 101 wherein said electro-optical sensing system is comprised by a TV camera.

5. (Currently Amended) An instrument panel according to ~~claim 1~~ claim 101 wherein said electro-optical sensing system is comprised by an optical sensor incorporated into a projector ~~for the~~ for rear projection display.

6. (Currently Amended) An instrument panel according to ~~claim 1~~ claim 101 wherein said computer additionally controls a desired function.

7. (Canceled)

8. (Currently Amended) An instrument panel according to ~~claim 1~~ claim 101 wherein absolute position of said at least one physical control detail is determined.

9. (Currently Amended) An instrument panel according to ~~claim 1~~ claim 101 further including sensing of touch position on said screen.

10. (Previously Presented) An instrument panel according to claim 9 wherein said touch sensing is also achieved electro-optically.
11. (Canceled)
12. (Currently Amended) An instrument panel according to ~~claim 1~~claim 101 wherein a datum on said at least one physical control detail located on the users side of said screen is sensed.
13. (Currently Amended) An instrument panel according to ~~claim 1~~claim 101 wherein a datum on a member related to the current position of said at least one physical control detail is sensed by said electro-optical sensing means, said member being located in back of said screen.
14. (Currently Amended) An instrument panel according to ~~claim 1~~claim 101 wherein force feedback is provided to the user as a result of sensing the current position ~~of said at of at least one of said plurality of physical control detail or touch position control details.~~
15. (Canceled)
16. (Currently Amended) An instrument panel according to ~~claim 1~~claim 101 wherein said screen incorporates at least one relief feature.
17. (Previously Presented) An instrument panel according to claim 16 wherein said relief feature does not unduly disrupt images projected on said screen.
18. (Currently Amended) An instrument panel according to ~~claim 1~~claim 101 wherein at least one of said plurality of physical control details comprises a transparent portion.

19. (Currently Amended) An instrument panel according to ~~claim 1~~claim 101 wherein at least one of said physical control details includes an opening through which said screen may be viewed.
20. (Currently Amended) An instrument panel according to ~~claim 1~~claim 101 wherein at least one of said physical control details comprises one of a slider and a dial.
21. (Currently Amended) An instrument panel according to ~~claim 1~~claim 101 further comprising projection means of a flying spot scanning type.
22. (Currently Amended) An instrument panel according to ~~claim 1~~claim 101 further comprising projection means comprising ~~a image~~an image modulating projector.
23. (Currently Amended) An instrument panel according to ~~claim 1~~claim 101 wherein said plurality of physical control details comprises two control knobs spaced horizontally in front of said screen.
24. (Previously Presented) An instrument panel according to claim 23 wherein a first displayed image on said screen corresponds to a radio configured around said two knobs, and said first image is capable of being reconfigured to a further image corresponding to another function.
- 25.-26. (Canceled)
27. (Currently Amended) An instrument panel according to ~~claim 1~~claim 101 wherein the instrument panel comprises a center stack and wherein the screen of said display is located in the center stack and is of a size occupying a substantial portion of the center stack.
28. (Currently Amended) An instrument panel according to ~~claim 1~~claim 101 wherein said screen is curvilinear.

29. (Currently Amended) An instrument panel according to ~~claim 1~~claim 101 wherein said screen is of an irregular non-standard geometrical shape.

30. (Currently Amended) An instrument panel according to ~~claim 1~~claim 101 wherein said display screen has an area of at least ninety square inches.

31. (Currently Amended) An instrument panel according to ~~claim 1~~claim 101 wherein said display screen is located in the center stack of said vehicle and extends toward the steering wheel of said vehicle.

32. (Currently Amended) An instrument panel according to ~~Claim 1~~claim 101 wherein said display screen comprises a plastic screen.

33. (Currently Amended) An instrument panel according to ~~claim 1~~claim 101 wherein video images are displayed on an upper portion of said display screen so as to be easily seen by the driver of said vehicle.

Claims 34.-35. (Canceled)

36. (Currently Amended) An instrument panel according to ~~claim 1~~claim 101 wherein said display screen is easily interchanged with a further display screen.

Claims 37.-39. (Canceled)

40. (Currently Amended) An instrument panel according to ~~claim 1~~claim 101 wherein data displayed on said display screen is comprised of labels and other data relating to the function of at least one of said plurality of physical control details.

41. (Previously Presented) An instrument panel according to claim 33 wherein a video image is provided on the screen which can be touched at a desired location to acknowledge or confirm data presented.

Claims 42.-44. (Canceled)

45. (Currently Amended) An instrument panel according to ~~claim 1~~claim 101 wherein said computer is further used to process data from other electro-optical systems within the vehicle.

46. (Previously Presented) An instrument panel according to claim 9 wherein data to be acted on by touch sensing is projected on said screen under control of said computer.

Claims 47-57. (Canceled)

58. (Currently Amended) An instrument panel according to ~~claim 1~~claim 101 wherein at least a portion of said screen is non-flat.

59. (Currently Amended) An instrument panel according to ~~claim 1~~claim 101 further comprising touch sensing means for sensing xy touch position of a finger of a user on at least a portion of said display screen.

60. (Canceled)

61. (Currently Amended) An instrument panel according to ~~claim 1~~claim 101 wherein at least one of said physical control details comprises a switch.

Claims 62 -100. (Canceled)

101. (Previously Presented) A configurable instrument panel for controlling functions of a vehicle, said panel comprising:

- a vehicle instrument panel display including a rear projection display screen;

- a plurality of physical control details capable of movement between a plurality of positions and mounted in front of said screen, at least one of said physical control details comprising a rotatable control knob;

- an electro-optical sensing system, located behind said screen and capable of sensing the plurality of positions of each of said plurality of physical control details, and having a field of view which encompasses said plurality of physical control details, for sensing a current position of each of said plurality of physical control details based on reflected light; and

- a computer, connected to said electro-optical sensing means, for reconfiguring the instrument panel from a display on the screen of one vehicle function to a different display on the screen of at least one other vehicle function, and for determining, from a current position of a physical control detail sensed by the electro-optical sensing means, as least one input to control a currently configured function of the vehicle, said vehicle functions and associated displays on said screen being selected from the group consisting of functions and associated displays of an audio system, climate control system and navigation system.